

CLAIMS

1. A radio communication terminal (40), comprising a user input and output interface (18,19), data processing means for controlling terminal functions, and a
5 releasable cover (30), **characterised in that** said terminal comprises a terminal core (1) including the data processing means and a cover connector (17) connected to the data processing means, and said cover carries an auxiliary functional member (32) and a terminal connector connected to the auxiliary functional member, wherein
10 said cover connector and terminal connector are devised to provide communicative connection for the auxiliary functional member of an attached cover to the data processing means of the terminal core.
2. The radio communication terminal as recited in claim 1, **characterised in that** said terminal core comprises a main terminal PCB (10) carrying electronic circuits
15 (11) for the terminal, and an additional PCB (54) connected to said electronic circuits, wherein said cover connector is disposed on said additional PCB.
3. The radio communication terminal as recited in claim 2, **characterised in that** said additional PCB is a keyboard PCB (54) supporting a terminal keyboard (19).
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4. The radio communication terminal as recited in claim 2 or 3, **characterised in that** the cooperating cover connector and terminal connector on one of said connectors comprises conductive connection pads, whereas the other of said connectors comprises a biased resilient connector element (151,160).
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5. The radio communication terminal as recited in claim 4, **characterised in that** said biased resilient connector element is a pogo-pin connector (150,151).
6. The radio communication terminal as recited in claim 5, **characterised in that**
30 said biased resilient connector element is a leaf spring connector (160).
7. The radio communication terminal as recited in any of the previous claims 4 to 6, **characterised in that** in said conductive connection pads are devised in the cover connector disposed on the terminal core.
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8. The radio communication terminal as recited in any of the previous claims, **characterised in that** in said cover comprises a shell member (30) devised to cover a portion of a front face of the terminal core.

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ART 34 AMDT

9. The radio communication terminal as recited in any of the previous claims, **characterised in** that in said cover comprises a shell member (20) devised to cover a portion of a rear face of the terminal core.

5 10. The radio communication terminal as recited in any of the previous claims, **characterised in** that said terminal core and said cover are provided with cooperating attaching means (36,27) for releasable attachment of the cover.

10 11. Disconnectable cover (30) for a radio communication terminal (40) according to any of the previous claims 1 - 10, comprising attaching means (36) for releasable attachment of the cover to a terminal core (1), **characterised in** that said cover comprises a terminal connector (34) devised to provide bus connectivity with said terminal upon attachment, and an auxiliary functional member (32,35) connected to said terminal connector for providing a function to the terminal when the cover is
15 attached thereto.

12. The disconnectable cover as recited in claim 11, **characterised in** that said auxiliary functional member is devised to affect or add to the function of an attached terminal core, and comprises a micro controller (35).
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13. The disconnectable cover as recited in claim 11 or 12, **characterised in** that the terminal connector comprises a biased resilient connector element (151,160), connectable to conductive connection pads arranged in the cover connector of the terminal core.
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14. The disconnectable cover as recited in claim 13, **characterised in** that said biased resilient connector element is a pogo-pin connector (150,151).

15. The disconnectable cover as recited in claim 13, **characterised in** that said
30 biased resilient connector element is a leaf spring connector (160).

16. The disconnectable cover as recited in claim 11, **characterised in** that said functional member comprises a touch-sensitive display (71).

35 17. The disconnectable cover as recited in claim 11, **characterised in** that said functional member comprises a speaker (81,111) for hands free operation.

18. The disconnectable cover as recited in claim 11, **characterised in** that said functional member comprises a digital image recorder (91).

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19. A terminal core (1) for a radio communication terminal (40) according to any of the previous claims 1 - 10, comprising data processing means and attaching means (27) for releasable attachment of a cover (30) to the terminal core, **characterised in**
- 5 that said terminal core comprises a cover connector (17) connected to the data processing means, such that attachment of a cover (30) carrying an auxiliary functional member (32) and a terminal connector (34) connected to the auxiliary functional member, provides an auxiliary function to the terminal core through the cooperating cover and terminal connectors.
- 10 20. The terminal core as recited in claim 19, **characterised in** that it comprises a main terminal PCB (10) carrying electronic circuits (11) for the terminal, and an additional PCB (54) connected to said electronic circuits, wherein said cover connector is disposed on said additional PCB.
- 15 21. The radio communication terminal as recited in claim 20, **characterised in** that said additional PCB is a keyboard PCB (54) supporting a terminal keyboard (19).
22. The radio communication terminal as recited in claim 19, **characterised in** that
- 20 the cover connector comprises conductive connection pads.

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